

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6045846

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SULEYMAN CETINTAS	03/31/2020
XIAN WU	04/02/2020
JIAN YANG	04/02/2020
<b>RECEIVING PARTY DATA</b>	
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<b>Street Address:</b>	770 BROADWAY
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10003
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16839436
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	085804.124800
<b>NAME OF SUBMITTER:</b>	JUDI CORDO
<b>SIGNATURE:</b>	/Judi Cordo/
<b>DATE SIGNED:</b>	04/03/2020
<b>Total Attachments: 4</b>	
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source=VM13200US00_085804_124800_assignment#page3.tif	



**ASSIGNMENT OF PATENT APPLICATION BY INVENTOR**

Whereas I, an undersigned inventor (hereinafter "INVENTOR"), have invented certain new and useful improvements as set forth in the patent application entitled:

**NEURAL CONTEXTUAL BANDIT BASED COMPUTATIONAL  
RECOMMENDATION METHOD AND APPARATUS**

for which I have executed a U.S. patent application on even date herewith.

which bears U.S. application serial No. \_\_\_\_\_, filed \_\_\_\_\_.

for which I have executed a patent application in the country of \_\_\_\_\_ on even date herewith.

which I have executed a U.S. provisional application on even date herewith.

which is a U.S. provisional application which bears U.S. application serial No. \_\_\_\_\_, filed \_\_\_\_\_.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

(a) Sell, assign and transfer to Oath Inc., a Delaware corporation having a place of business at 770 Broadway New York, NY (hereinafter "ASSIGNEE"), (1) the entire right, title and interest, and any and all revenues and rights to revenue, for any purpose, associated with commercialization, everywhere in the world, to (A) any and all inventions described in said Application, (B) said Application, (C) any patent that may be granted thereof, (D) any patent applications or patents which may claim priority of (or serve as the basis for a priority claim by) said Application (including but not limited to continuations, divisions, continuations-in-part, substitutes, reissues, reexaminations or extensions thereof, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements or treaties), and;(2) the right to sue third parties for patent infringement (including but not limited to damages) accruing based on activities occurring prior to the execution date hereof.

(b) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.

(c) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, and to communicate to the ASSIGNEE any facts known to us respecting the improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and

reissue applications, make all rightful oaths and generally perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.

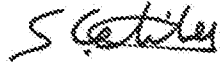
(d) Warrant and covenant that no other assignment, license, contract, understanding, interest or other grant to any third party with respect to any of the foregoing has been made, or shall in the future be made, by or on behalf of INVENTOR.

(e) Covenant not to challenge the validity or enforceability of any of the patent applications or patents assigned to ASSIGNEE hereunder.

(f) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the INVENTOR, as well as the INVENTOR's heirs, legal representatives and assigns.

(g) Authorize and request my attorney/agent to insert above the application number in order to assist with recordal of this assignment or any other information necessary to perfect this assignment.

IN TESTIMONY WHEREOF, I SULEYMAN CETINTAS have executed this document on the date indicated below.

  
\_\_\_\_\_  
Signature of Inventor

03/31/2020  
\_\_\_\_\_  
Date

CUPERTINO, CA  
\_\_\_\_\_  
Inventor's City, State of residence

IN TESTIMONY WHEREOF, I XIAN WU have executed this document on the date  
indicated below.

Xian Wu  
Signature of Inventor

04/02/2020  
Date

SOUTH BEND, IN  
Inventor's City, State of residence

IN TESTIMONY WHEREOF, I JIAN YANG have executed this document on the date  
indicated below.



\_\_\_\_\_  
Signature of Inventor

4/2/2020

\_\_\_\_\_  
Date

PALO ALTO, CA

\_\_\_\_\_  
Inventor's City, State of residence